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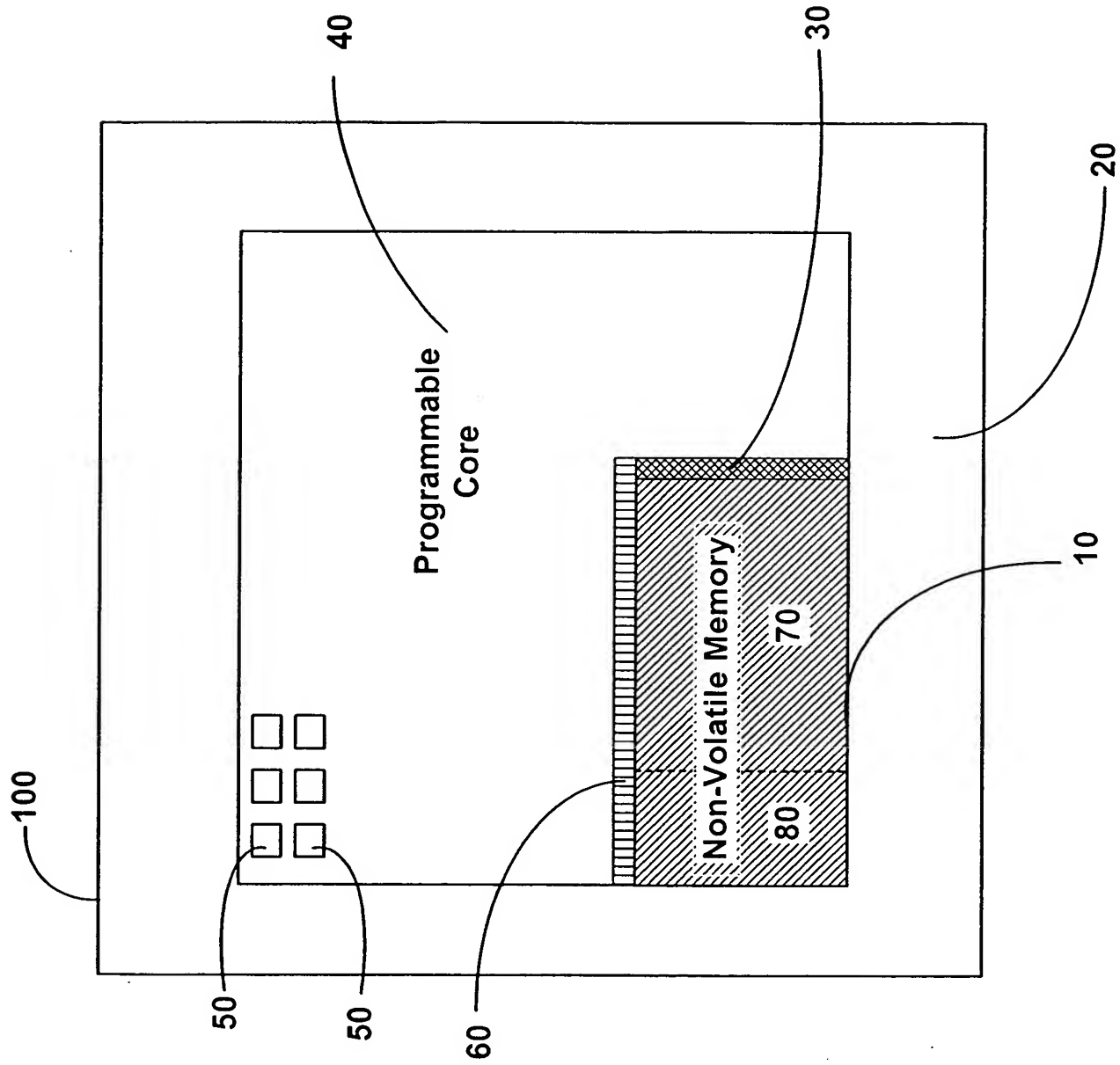


FIG. 1

for

my_unvnm

altunvnm_spi

si

sck

ncs

so

What is the interface protocol?

☐ None

☐ Altera proprietary 3-wire

☐ Parallel

☐ Atmel 3-wire compatible

☐ I2C (internal Usage)

☒ Synchronous Serial Peripheral Interface (SPI)

Which type of UNVM is intended to be used?

☐ 2048-bit version

☒ 4096-bit version

What is the memory configuration for the interface protocol?

☐ 1 Kbits: 64 x 16

☐ 2 Kbits: 128 x 16

☐ 4 Kbits: 256 x 16

☐ 1 Kbits: 128 x 8

☒ 2 Kbits: 256 x 8

What is the mode for UNVM?

☒ Read / Write

☐ Read Only

What is the size of Page Write?

☐ 8 bytes

☐ 16 bytes

☒ 32 bytes

Cancel

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210 210 210 220 230 240 250

FIG 2

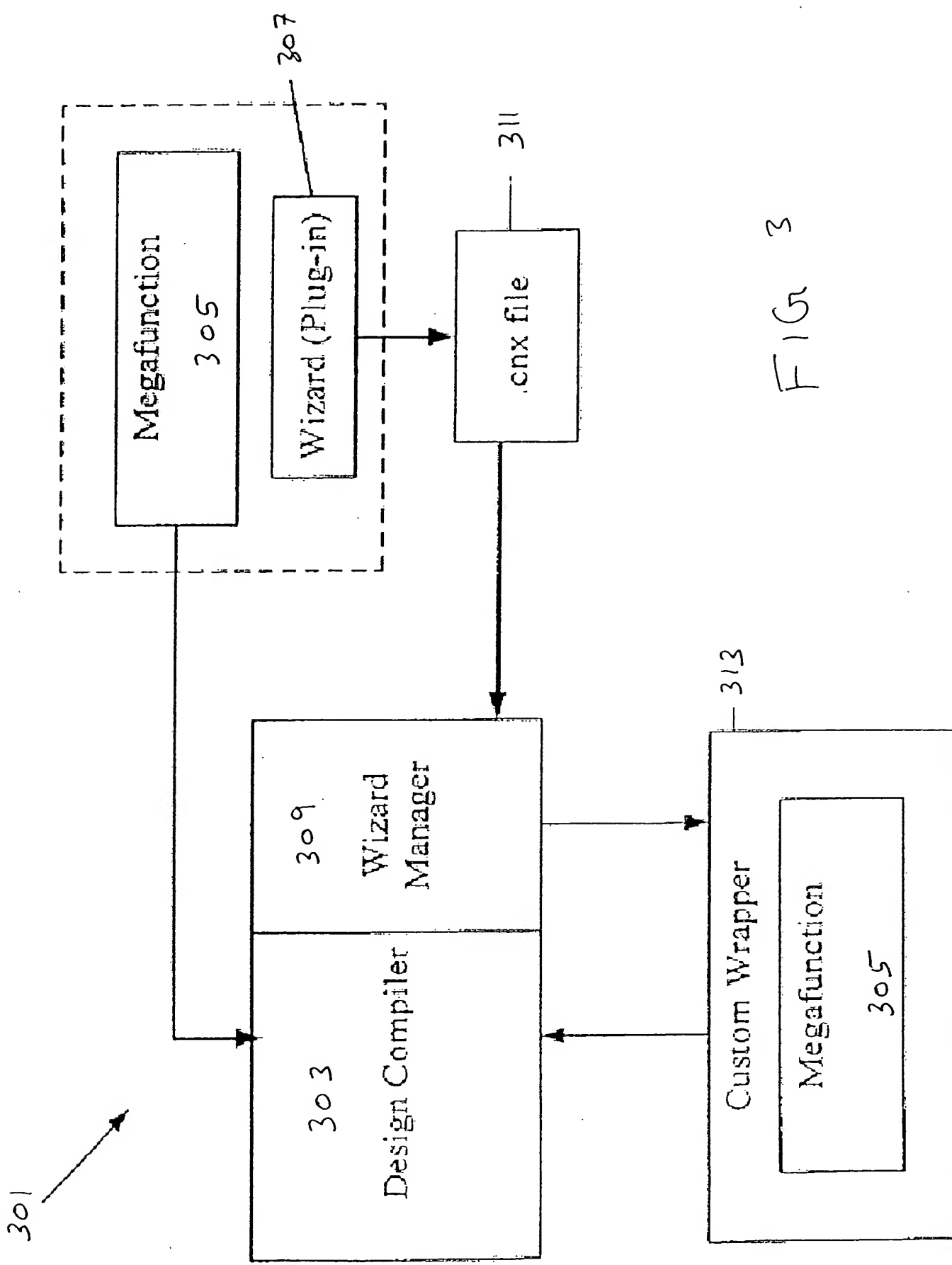
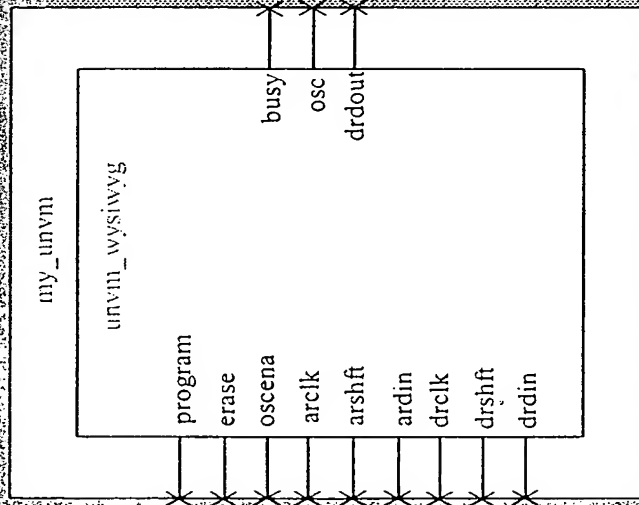


FIG. 3



What is the interface protocol?

- ☒ None
☐ Altera proprietary 3-wire
☐ Parallel
☐ Altera 3-wire compatible
☐ I2C (Internal Usage)
☐ Synchronous Serial Peripheral Interface (SPI)

Which type of UNVM is intended to be used?

- ☒ 2048-bit version
☐ 4096-bit version

What is the memory configuration for the interface protocol?

- ☐ 1 Kbits: 64 x 16
☐ 2 Kbits: 128 x 16
☒ 4 Kbits: 256 x 16
☐ 1 Kbits: 128 x 8
☐ 2 Kbits: 256 x 8

What is the mode for UNVM?

- ☒ Read/Write
☐ Read Only

What is the size of Page Write?

- ☐ 8 bytes
☐ 16 bytes
☒ 32 bytes

Cancel

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FIG. 4

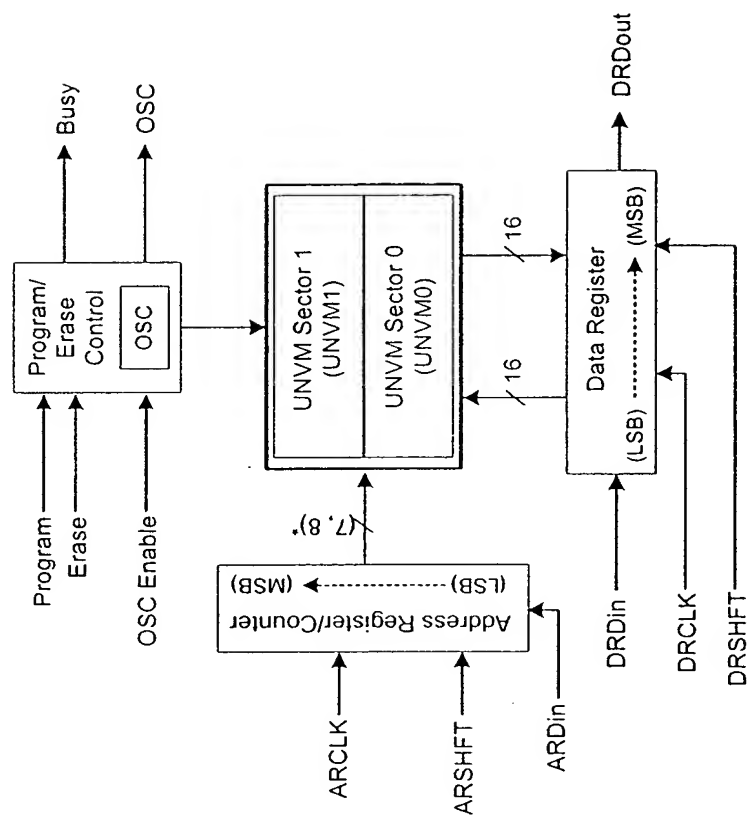
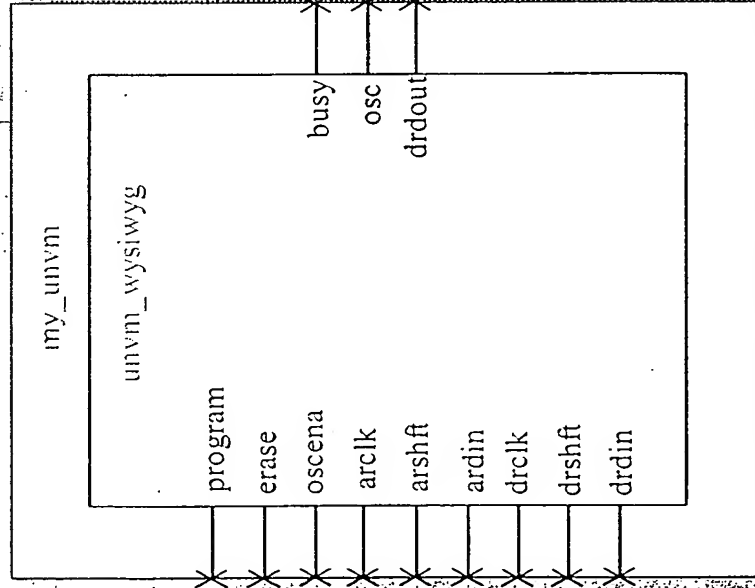


FIG. 5



Do you want to specify the initial content of the memory?

☒ No, leave it blank

☐ Yes, use this file for the memory content data

(You can use a Hexadecimal (Intel Format) File (.hex) or a Memory Initialization File (.mif))

File name:

Browse

What is the address value for I/O interface?

Device Address

1 0 1 0 1 0 1 0

Cancel

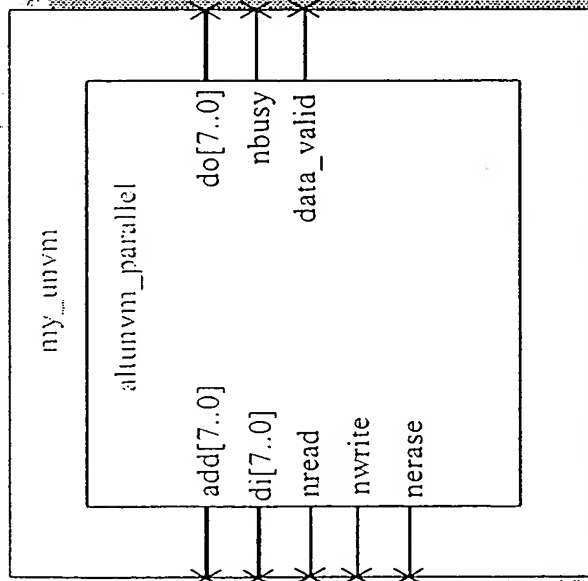
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Finish

FIG. 6

i/o



What is the interface protocol?

- ☐ None
☒ Parallel
☐ I2C (Internal Usage)
☐ Synchronous Serial Peripheral Interface (SPI)

- ☐ Altera proprietary 3-wire
☐ Atmel 3-wire compatible

Which type of UNVM is intended to be used?

- ☒ 2048-bit version
☐ 4096-bit version

What is the memory configuration for the interface protocol?

- ☒ 1 Kbits, 64 x 16
☐ 2 Kbits, 128 x 16
☒ 1 Kbits, 128 x 8
☐ 2 Kbits, 256 x 8

What is the mode for UNVM?

- ☒ Read / Write
☐ Read Only

What is the size of Page Write?

- ☐ 8 bytes
☒ 16 bytes
☐ 32 bytes

Cancel

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Finish

Fig. 7

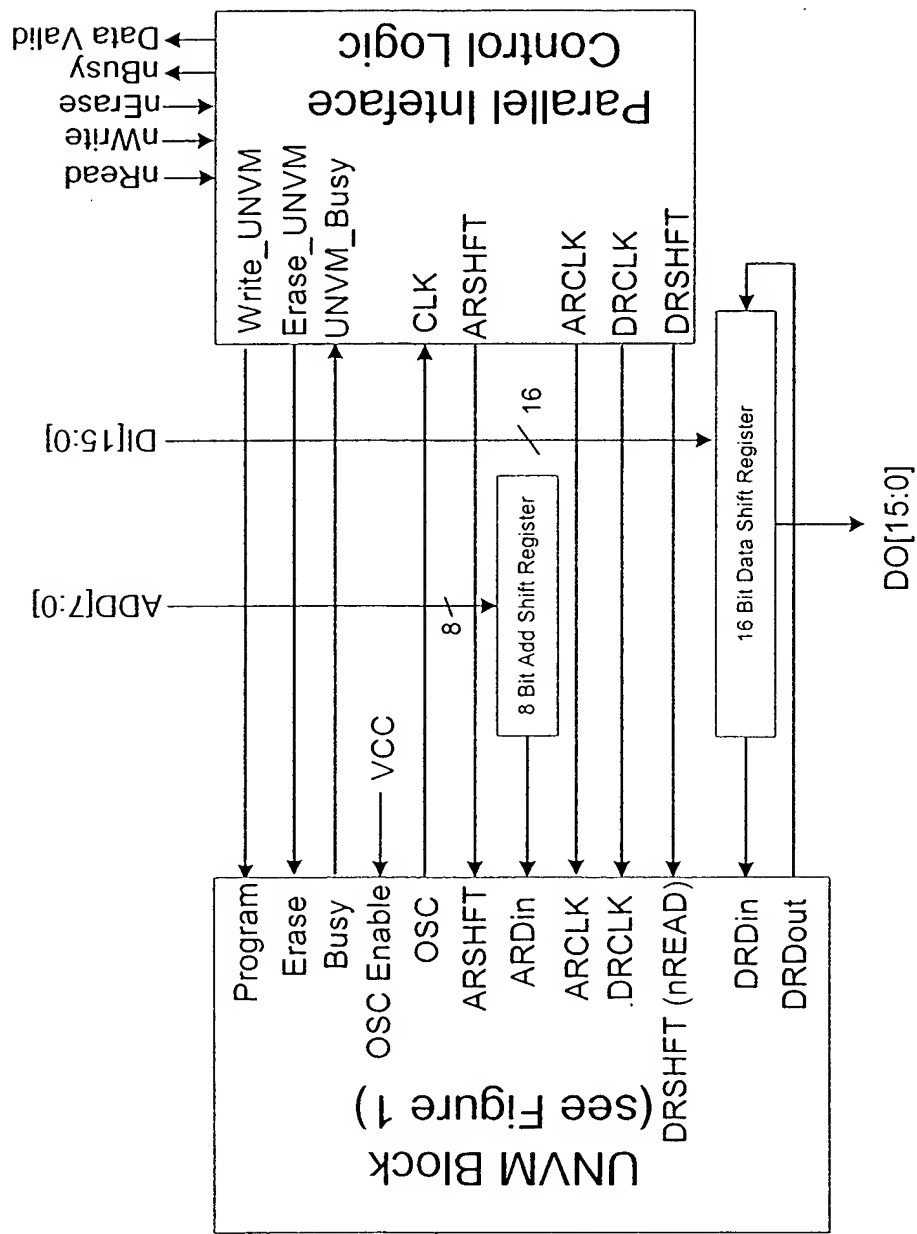


Fig. 8

910 5

MegaWizard Plug-In Manager - altunvm [page 5 of 6]

my_unvm

altunvm_parallel

add[7..0]

di[7..0]

nread

nwrite

nerase

do[7..0]

nbusy

data_valid

What is the name of the file containing the memory initialization data?

(You can use a Hexadecimal (Intel Format) File (.hex) or a Memory Initialization File (.mif).)

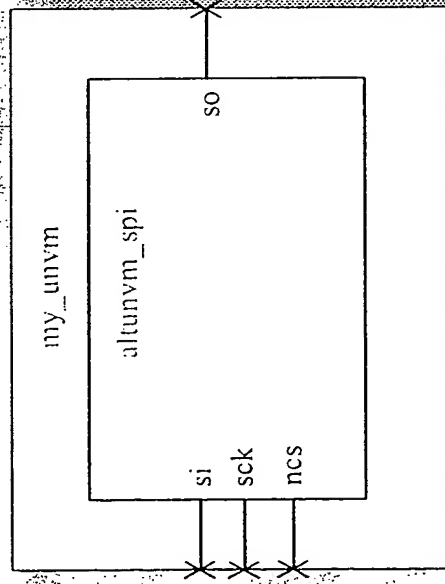
Filename: Browse...

What is the address value for the interface?

Device Address: 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0

Cancel < Back > Next > Finish

Fig. 9



What is the interface protocol ?

- ☐ None
☐ Altera proprietary 3-wire
☐ Parallel
☐ Atmel 3-wire compatible
☐ I²C (Internal Usage)

☒ Synchronous Serial Peripheral Interface (SPI)

Which type of UNVM is intended to be used ?

- ☐ 2048-bit version
☒ 4096-bit version

What is the memory configuration for the interface protocol ?

- ☐ 1 Kbits: 64 x 16
☐ 2 Kbits: 128 x 16
☒ 4 Kbits: 256 x 16
☐ 1 Kbits: 128 x 8
☐ 2 Kbits: 256 x 8

What is the mode for UNVM ?

- ☒ Read / Write
☐ Read Only

What is the size of Page Write ?

- ☐ 8 bytes
☐ 16 bytes
☒ 32 bytes

Finish

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Cancel

FIG. 10

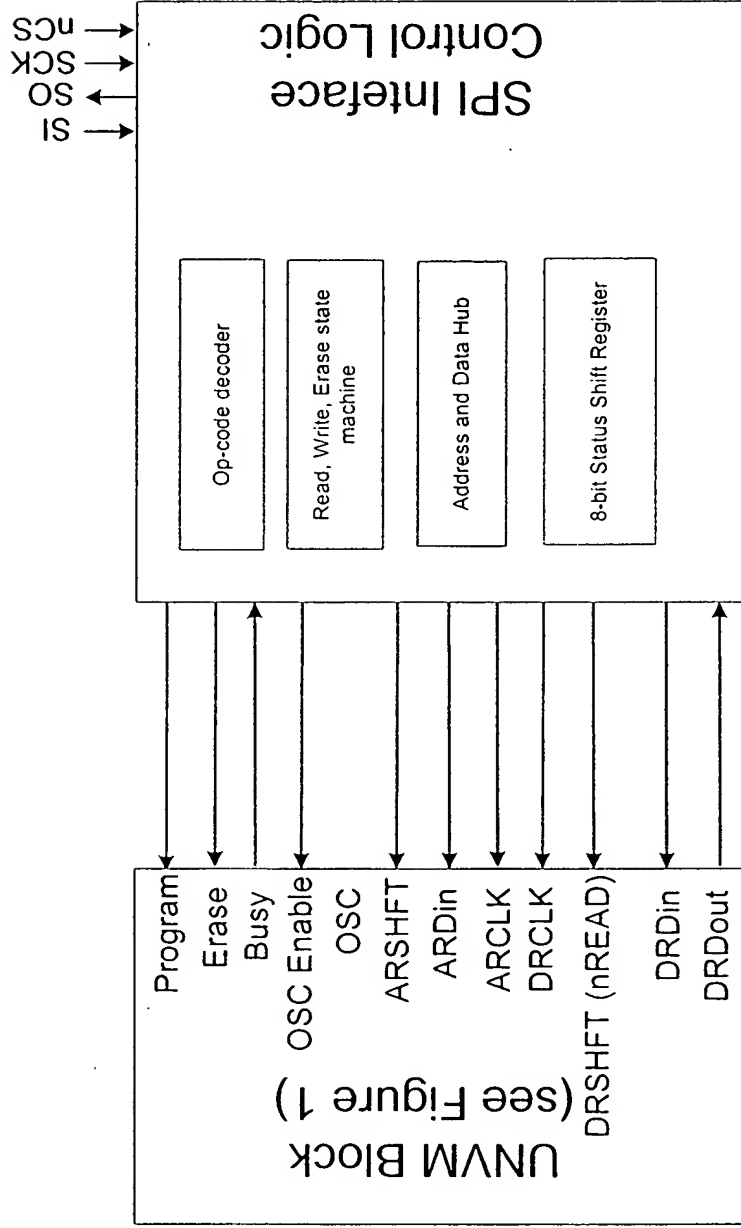
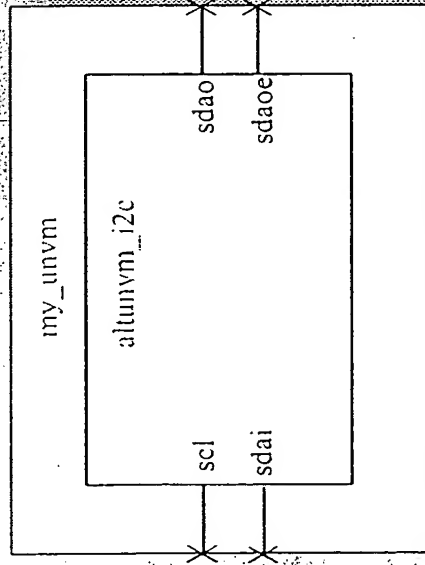


FIG. 11



What is the interface protocol ?

- ☐ None
☐ Altera proprietary 3-wire
☐ Parallel
☒ I²C (Internal Usage)
☐ Synchronous Serial Peripheral Interface (SPI)

Which type of UNVM is intended to be used ?

- ☒ 2048-bit version
☐ 4096-bit version

What is the memory configuration for the interface protocol ?

- ☐ 1 Kbits: 64 x 16
☒ 2 Kbits: 128 x 16
☐ 4 Kbits: 256 x 16
☐ 1 Kbits: 128 x 8
☐ 2 Kbits: 256 x 8

What is the mode for UNVM ?

- ☒ Read / Write
☐ Read Only

What is the size of Page Write ?

- ☐ 8 bytes
☒ 16 bytes
☐ 32 bytes

Cancel

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Finish

Fig 12

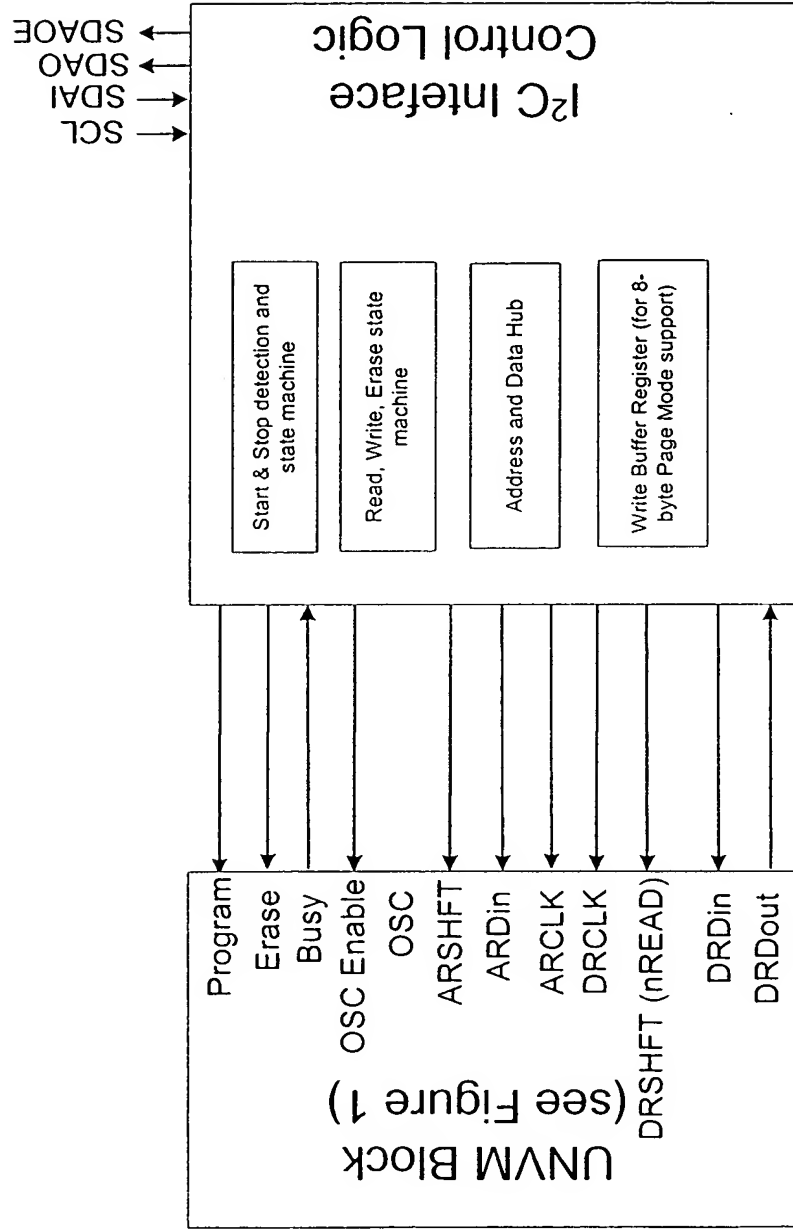


FIG. 13

1401 S

MegaWizard Plug-In Manager - altunvm [page 4 of 6]

my_unvm

altunvm_i2c_int

scl

sdai

sdao

sdae

Do you want to specify the initial content of the memory?

☒ No, leave it blank

☐ Yes, use this file for the memory content data

(You can use a Hexadecimal (Intel Format) File (.hex) or a Memory Initialization File (.mif))

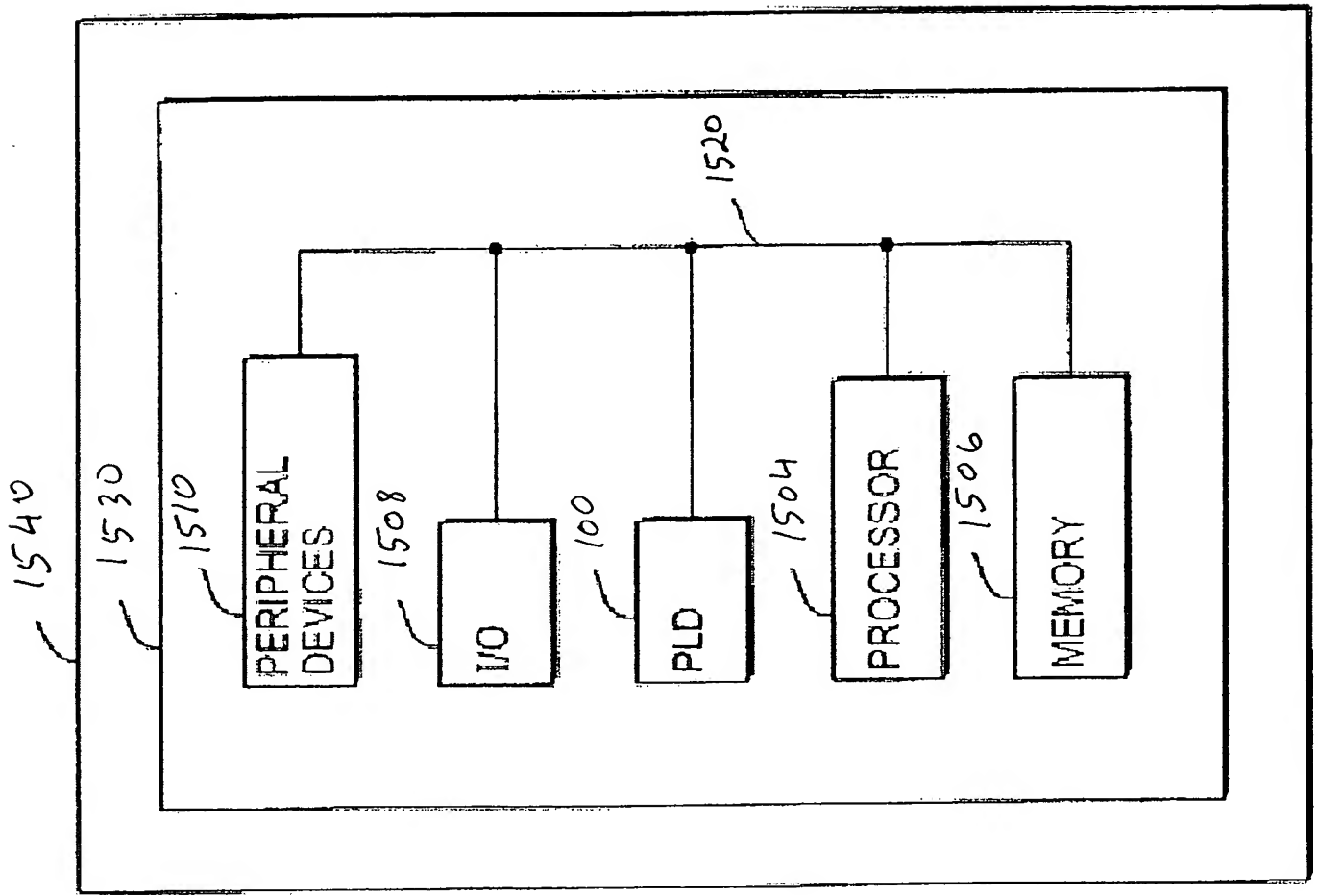
File name: Browse...

What is the address value for I2C interface?

Device Address: 7 0 1 0 0 0 0 0

Cancel < Back Next > Finish

Fig. 14



1502
↙

FIG. 15